SBR No : 03/17-18
Date : 19.4.2017

BR No : 03/17-18
Date : 20.4.2017

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. 1st & Final Dated 2017

Division: **Electricals** Sub-Division: **Electricals**

Bill Received No. 03 Dated 20.4.17 Divisional Cash Book Voucher No..... Dated.....

Sub Divisional P0088

Schedule Docket No. Head of Account : **Maintenance and Management of Parks on Contract**

D.R.No

Name of Work : *Providing Lighting System to Geleyarabalaga Park 1&2 Ward No 12.*

Name of Contractor and Full Address:**M/S. Technical Manager -2(BBMP) KRIDL**

Reference to Agreement No:EE/Ele/DZ/WO/19/16-17 Date:03/03/2017 **Job No 012-15-000033**

Certified that the measurements were taken by me on 19/3/17 and recorded of Pages to of measurement Book No.5124/17-18 and that the work is satisfactorily executed.

5123120 18

EXECUTIVE ENGINEER-4 KRIDL, BBMP DIVISION BENGALURU-560 010

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 19/4/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within		
2) Deduct amount to be held in reserve being .....percent Rs.....		
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....	Amount	548989 =
adjusted towards cash advance recovery of	JT 2%	10980 ~
	KST 4%	21960 ~
	LWC 1%	5490 ~
	CBT 0.1%	549 =
b) Payments Now made: cost store or other material supplied.	FD 5%	27450 ~
recovery of amount creditable to this/other work	TD	66429 ~
Amount paid on this bill Cheque / Cash.	Nil	482560 ~
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

Contractor's Signature

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Paid by me by Cheque No..... Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Executive Engineer

Checked and admitted for Rs. 548989/-
Paid by Cheque for Rs. 482560/-
Four Lakhs Eighty Two Thousand Five Hundred & Sixty Only
by adjustment Rs. 66429/-

Accounts Superintendent Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010
Stamp

Sl. No.	Description of item	Unit
	Name of Work;- Providing Lighting System to Geleyarabalaga Park 1&2 Ward No 12.	
1	Fabricating, supplying and erectiMon of swaged tubular pole of height 3.5Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. Base plate of suitable size 200mmX200mmX6mm thick welded at the bottom of the pole (as per IS) and 40 mm dia GI/flexible PVC pipe of 1 Mtr. Length fitted to the 18 gauge M.S control box of size 300mmX200mmX125mm arrangements 30amps porcelain fuse cut out/DP switch.1no of 4way connector in case of cable looping. The pole shall be erected n cement concrete work(1:3:6) including excavation and refilling.a).3.5Mtr Pole. (top- 0.5mtr,2" inner dia bottom-1.5mtr,3" dia,Middle-1.5 mtr) Planting depth 1 Mtr. Conical street light pole	Each
2	Supplying 70 watts MH integral post tap lantern Metal halide fitting suitable for pole mounted with fully vermin, weather proof, elegant in shape, appearace, UV stabilized clear acrylic diffusers, camouflaged horzantal lamp, holder and lamp, IP 54 protection. Electrical safety clas1. the fitting shall have ferromaghnetic copper choke with capacitor, igniter andf fully wired to operate on 230v 50HZ AC supply with 70watts MH Lamp.	Each
3	Fixing charges of post top/Gate/Garden fitting on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.	Each
4	Supplying of 1.1KV LT UG cable having aluminim conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (Except 2Cx10sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) & extruded PVC outer shet=athed armoured cable with specified IS-1554 Part-1 :1988 & confirming to GTP of Group -A.4 core 16 sqmm	P/Mtr
	7.4.5 3.5 core 25 sqmm	P/Mtr
5	Labour charges for laying of 1.1KV class UG calbe when supplied agency in existing trench GI pipe/ stpnewre pip / on wall / on pole as required. In exixting trench/duct.a.6 sqmm to 16 sqmm	P/Mtr
	7.8.2 25 sqmm to 75 sqmm	P/Mtr
6	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)b. In soil (ordinary)	P/Mtr
7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cabe in open or consealed system of wiring.I Group A.a) 1.5 sqmm	P/Mtr
8	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/Panel board using necessary bolts, nuts, washers and wiring etc., complete. With AC 3 rating as per IS 13947. d.100-125Amps	Each
9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring and 'c' type curve, indicator ON/OFF , energy cross-3 with short circuit breaking capacity of 10k and complete as required confirming to IEC 60898.c.5-32Amps DP 1) Group 'A'	Each
10	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. a) 14 SWG.	Sq cm
11	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.a) 1.5 sqmm	Each
	7.21.6. 16 sqmm	Each
	7.21.7. 25 sqmm long barrel	Each
12	Supplying and fixing Microprocessor based Astronomical timer switch with using necessary bolts, nuys and washers.	Each
13	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.a.40x40x6mm.	Mtr

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
0	0	20	4770.00	95400	20	95400	
0	0	20	6724.00	134480	20	134480	
0	0	20	145.00	2900	20	2900	
0	0	458	140.40	64303.2	458	64303.2	
0	0	50	165.60	8280	50	8280	
0	0	458	10.80	4946.4	458	4946.4	
0	0	50	16.20	810	50	810	
0	0	548	78.00	42744	548	42744	
0	0	170	18.60	3162	170	3162	
0	0	2	9915.00	19830	2	19830	
0	0	8	849.00	6792	8	6792	
0	0	20000	0.37	7400	20000	7400	
0	0	40	2.00	80	40	80	
0	0	95	11.31	1074.45	95	1074.45	
0	0	20	20.59	411.8	20	411.8	
0	0	2	4586.00	9172	2	9172	
0	0	10	263.00	2630	10	2630	

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

No. 1st & Final (For Other Works) Date.....2010

Division: **Electricals** Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account : **Maintenance and Management of Parks on Contract**

D.R.No

Name of Work : *Providing Lighting System to Geleyarabalaga Park 1&2 Ward No 12.*

Name of Contractor and Full Address:**M/S. Technical Manager -2(BBMP) KRIDL**

Reference to Agreement No:EE/Ele/DZ/WO/19/16-17 Date:03/03/2017 **Job No 012-15-000033**

Certified that the measurements were taken by me on 19/3/17 and recorded of Pages to of measurement Book No. 5127/1718 and that the work is satisfactorily executed.

5123/2018

Contractor **Officer-in-charge of work**

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Certified that the measurement were taken by me on 19/3/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

ASST. EXECUTIVE ENGINEER (EE)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	
2) Deduct amount to be held in reserve being .....percent Rs.....	
3) " Balance	
4) Deduct Payment:	
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....Amount adjusted towards cash advance recovery of	
b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5) Balance being unpaid value of work done held in reserve.	
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7) Net amount due to or from Contractor unadjustments items.	
8) Advance to Contractor for materials brought to site (as detailed) within.	
9) Value of Government materials supplied.	
Total amount adjusted -	

Contractor's Signature

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Dated Signature of Contractor Stamp

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Initials of Officer making payment **Executive Engineer**

14	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., Complete. 100 Amps.	Each
15	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments to the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm around the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each
16	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV calss UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.b.. 25Sqmm	Each
17	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.a. 40mm	P/Mtr
18	Fabricating, supplying and erecting swaged tubular pole of height... Mtr having three sections and providing two coats of re oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. Base plate of suitable size welded at the bottom of the pole (as per IS) and 40 mm dia GI/flexible PVC pipe of 1 Mtr. Length fitted to the heavy gauge polycarbonate control box including 5 way connector of size 167x125x82mm for 7.5 M pole/ 200x160x98 mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB/DP Switch. The pole shall be erected n cement concrete work(1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be upto 0.6M above ground level as per IS 2713-7.I. Erection of light duty pole on-Foot path a) 9 Mt (5Mt H 165.1mm dia 4.85mm thick x 2M Hm,139.7mm dia 4.50mm thick x 2MHb. 114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each
19	LED flood light. Supplying of LED floodlight with ....w system power consumption presure die cast aluminium housing with powder coating with ip 65 protection. 1 200-275v voltage with electronic driver, PF 0.9, should meet ansi 2G vibration test, complaince to UL/CE with class 1. system efficiancy > 80lm/w. over load and short circuit protection ensures reliable operation in spite of problem in output side, compliance to IS 10322/IEC 60598. LM 79 & LM 80 adherence with rohs. UL approved MCPCB. top access street light with single screw to ensure ease of maintenance at the sight site location with minimised minimal tools. LED light fixture with .... w system power consumption. LED efficiency >130lm/w at 1w & fixture efficiency > 80lm /w with nominal CRI/75. luminaire manufacturer should have in house facility acccerdited y NABL/CPRI and any government certified agency and design and development facility certified by ISO 9001:2008.housing with supplier word mark/ mane shall be engraved/ embossing n the die cast having/ body part. warranty of 5 years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacture.	No
20	Supplying ... amps rated 3phase with neutral bus bar using required capacity electolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/ FRP/DMC/ insulator which are mounted on powder coated 40x6mm MS flat frame work in existing panel board. the bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts, and washers etc., complete 100Amps 4x30x6mm Aluminium strips.	P/Mtr
	TOTAL	
	Add KRIDL CHARGES 9.1%	
	Grand Total	

Certificate: Certify that the work has been carried out satisfactorily.

T.N. Reddy
19/8/19

ASST. EXECUTIVE ENGINEER (El
Bruhath Bangalore Mahanagara Pali
Dasarahalli Zone, Bangalore

0	0	6	360.00	2160	6	2160	
0	0	1	2727.00	2727	1	2727	
0	0	2	362.00	724	2	724	
0	0	10	345.00	3450	10	3450	
0	0	2	15000.00	30000	2	30000	
0	0	4	14646.00	58584	4	58584	
0	0	1	1600.00	1600	1	1600	
	0.00			503660.85		503660.85	
	0.0			45833.14		45833.14	
	#REF!			549493.99		549493.99	

Bill Amt 503660=
Add: KRDL charges 45329=
548989=